SHOSTAKUVSKIY, M. G.

USSR/Chemistry - Vinyl Alkyl Esters

Chemistry - Hydrolysis, of Vinyl Alkyl Esters

Sep 48

"Hydrolysis of Vinyl Alkyl Esters in Aqueous Dioxane Solution," Ye. N. Prilezhayeva, E. S. Shapiro, M. F. Shostakovskiy, Inst Org Chem, Acad Sci USSR, 11 pp

"Zhur Obshch Khimii" Vol XVIII, No 9

Tabulated data shows that rate of hydrolysis of vinyl butyl and vinyl ethyl esters and of dibutylacetal by hydrochloric acid decreases with increased content of dioxane in water used a as solvent. Discusses mechanism of this reaction. Submitted 21 Jun 17.

PA 30/49 T10

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549910017-4"

SHOSTAKOVSKII, M. F.

E. N. Prilezhaeva, E. S. Shapiro, M. F. Shostakovskii, Hydrolysis of vinyl-alkyl ethers in water-dioxane solutions. p. 1663

The hydrolysis rate of hydrochloric acid in water-dioxane solutions was measured: Vinyl-butyl ether, vinyl-ethyl ether and di-butyl-acetal were found. It is shown that the rate of hydrolysis drops from water to water-dioxane solutions. An hypothesis was examined which explains the mechanism of hydrolysis of vinyl ethers and a reaction scheme is given which takes into account the interaction of the hydronium ion with etheroxygen as well as with the $\widehat{\beta}$ -carbon atom.

Institute of Organic Chemistry Acad. of Sci. USSR June 21, 1947

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SO: Journal of General Chemistry (USSR) 28, (80) No. 9 (1948)

SHOSTAKOVSKII, M. F.

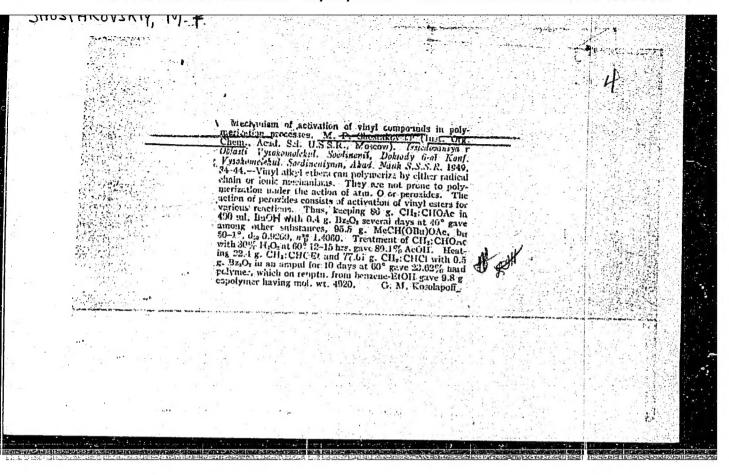
N.A. Gershtein and M.F. Shostakovskii, To the transformations of simple vinyl ethers. III. Interaction of simple vinyl ethers and organic acids. p. 1989.

The reaction of simple vinyl ethers and organic acids in the absence of a catalyst was studied. It is shown that the organic acids of the aliphatic series attach themselves to the simple vinyl ethers at room temperature but to complete the reaction a longer time is needed. A new method of synthesis of alkoxy-derivatives of complex ethers (acylales) with a yield of 90 percent and more is established.

Inst. of Organic Chemistry Academy of Sciences, USSR Lab of Vinyl Compounds December 1, 1947

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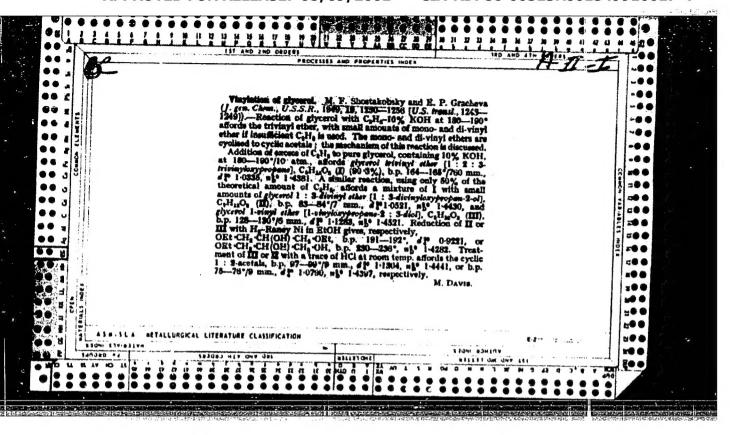
SO: Journal of General Chemistry (USSR) 28, (80) No. 11, 1948



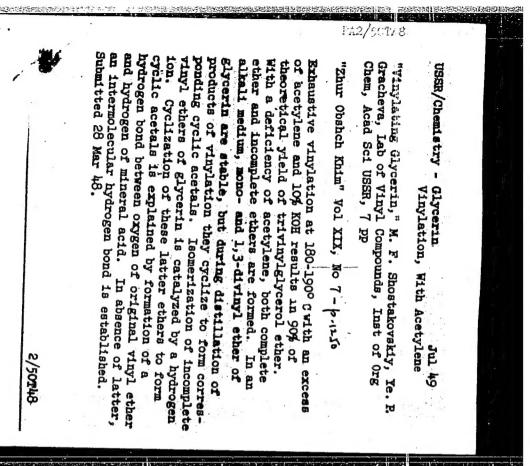
USSR/Chemistry - Vinyl Ethers Mar/Apr 49
Chemistry - Chlorohydrins

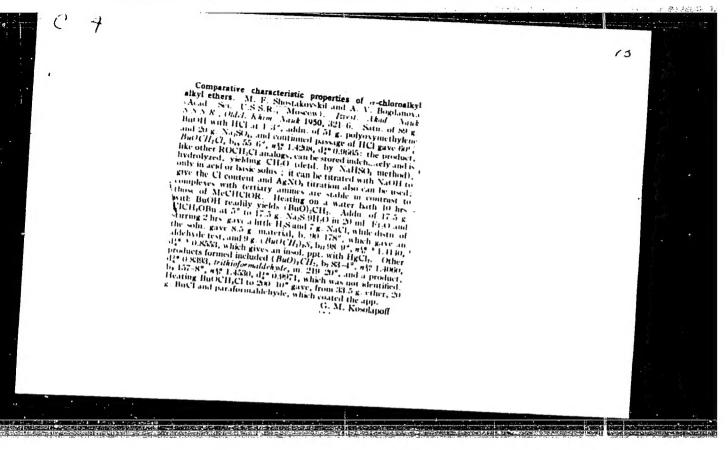
"Interaction of Vinylalkyl Ethers and Halohydrins,"
M. F. Shostakovskiy, N. A. Gershteyn, A. K. Gorban',
Inst of Org Chem, Acad Sci USSR, 8 pp

"I2 Ak Nauk SSSRg Octdel Khim Nauk" No 2
Studies reaction of vinylethyl and vinylbutyl ethers with ethylene chlorohydrin. Chlorine derivatives of the corresponding acetals were obtained. Sibmitted 16 Apr 48.

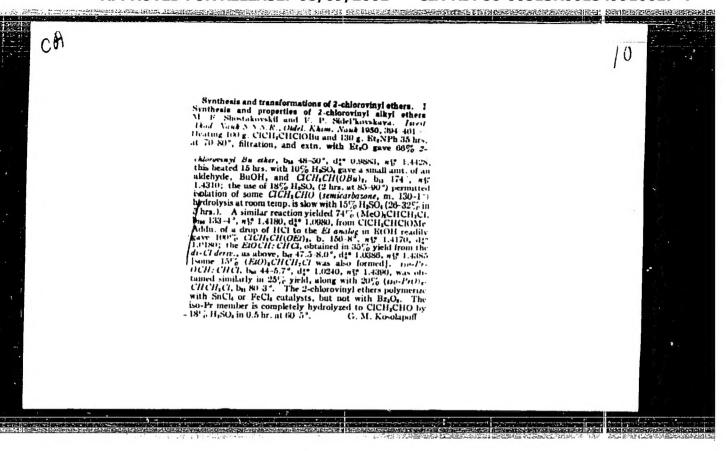


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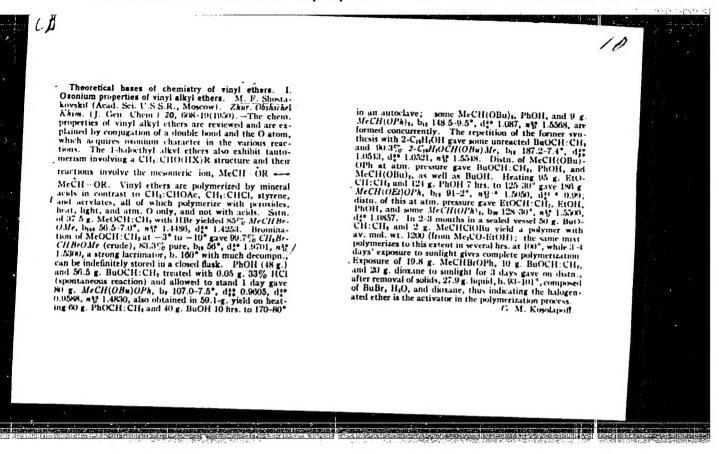




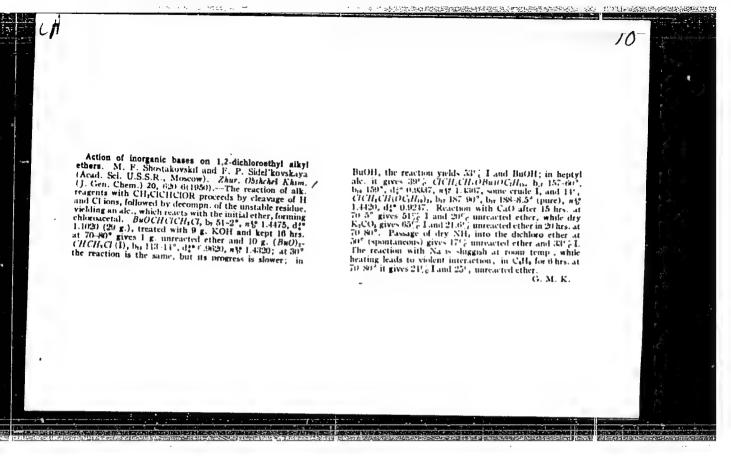
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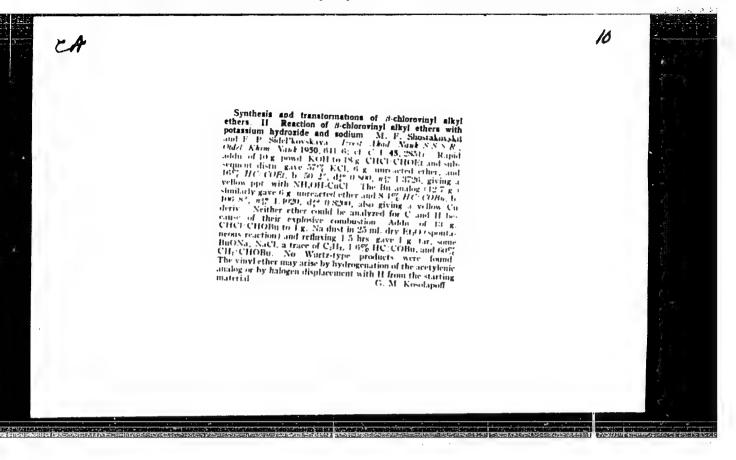
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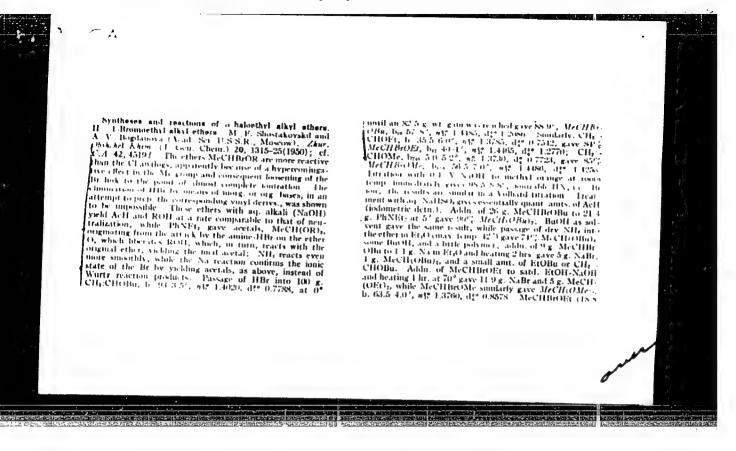
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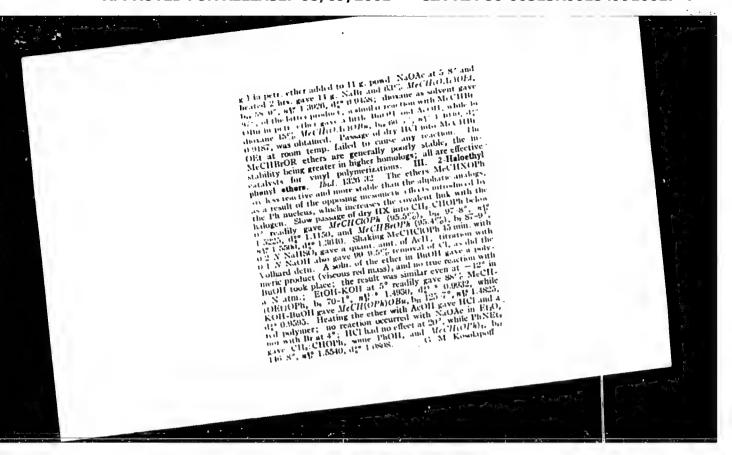


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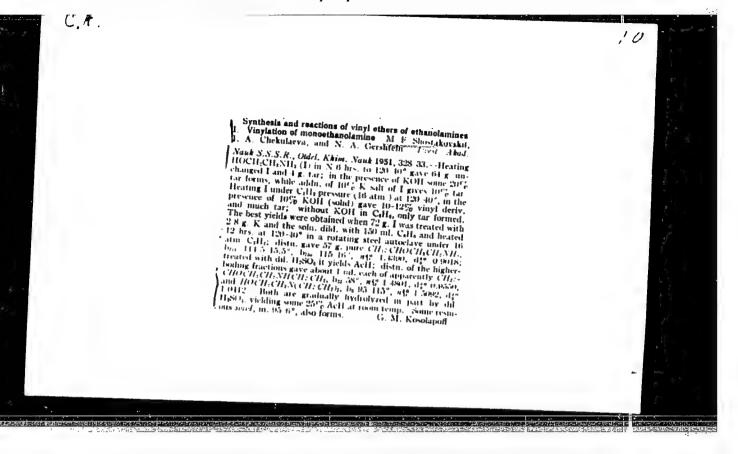




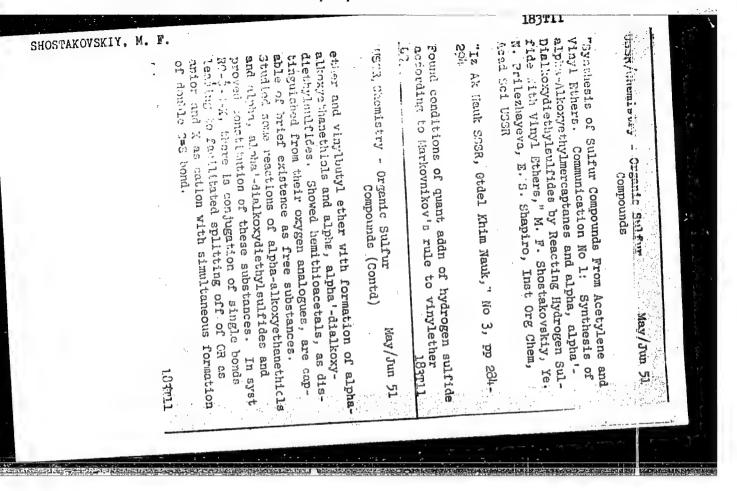
CHCSTAROVSHII, M. F.

"Studies in the field of synthesis and transformations of a-haloethers. III. a-Haloethyl phenyl ethers." M. F. Shostakovskii and A. V. Bogdanova. (p. 1326)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1950, Vol 20, No. 7.



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SHOSTAKOVSKIY, M. F.

USSR/Chemistry - Organic Sulfur Compounds

Jul/Aug 51

"Synthesis of Sulfur-Containing Compounds Based on Simple Vinyl Ethers and Acetylene. Communication 2. Synthesis of B , B' - and A , A Dialkoxydiethylsulfides, "Ye. N. Prilezhayeva; E. S. Shapiro, M. F. Shostakovskiy, Inst of Org Chem, Acad Sci USSR

"Iz Ak Nauk SSSR, Otdel Khim Nauk" No 4, pp 438-447

Found conditions for synthesis of OC.B -and B, B'-dialkoxydiethylsulfides from si ple vinyl ethers and H.S. Mixts of isomeric sulfides were analyzed and purity of products detd by method, discovered by present authors, of titration based on decomposit shows sulfides in present authors. decompn of above sulfides in presence of HgCl2.

PA 192T23

1953. Unclassified. Monthly List of Russian Accessions, Library of Congress,

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SHOSTAKOVSKIY, M. F.

USSR/Chemistry - Organic Sulfur Compounds

Sep/Oct 51

"Synthesis of Sulfur Compounds on the Base of Vinyl Ethers and Acetylene. Communication 3. Certain Properties of and B, B-Dialkoxydiethylsulfides," Ye. N. Prilezhayeva, E. S. Shapiro, M. F. Shostakovskiy, Inst of Org Chem, Acad Sci USSR

"Iz Ak Nauk SSSR, Otdel Khim Nauk" No 5, pp 560-567

Studied some characteristic reactions of C, B and B, B' dialkoxydiethylsulfides. Comparison of chem reactions of C, C, C, C, C, and C, C dialkoxydiethylsulfides showed that introduction of alkoxyl at C atom which is in C position with respect to C atom causes compd to react in manner different from that characteristic for dialkylsulfides, which is particularly expressed in decreased ability to form stable complex compds with Hg salts and increased tendency toward characteristic decompn reaction. Discusses causes of this behavior.

PA 195T14

SHOSTAKOVSKIY, M. F.

USSR/Chemistry - Organic Sulfur Compounds

Sep/Oct 51

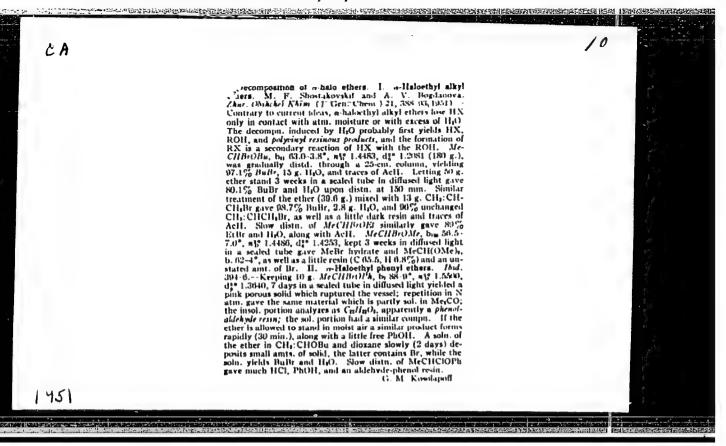
"Synthesis of Sulfur Compounds on the Basis of Acetylene and Vinyl Ethers. Communication 4. Synthesis of Trithioacetaldehyde," Ye. N. Prilezhayeva, E. S. Shapiro, M. F. Shostakovskiy, Inst of Org Chem, Acad Sci USSR

"Iz Ak Nauk SSSR, Otdel Khim Nauk" No 5, pp 568-570

By action of H₂S on vinyl ethers in presence of high concns of HCl, prepd with good yield cyclic trimer of thioacetaldehyde and corresponding alc. Reaction proceeds through intermediate formation of \propto -chloroethylalkyl ethers and \propto -alkoxyethyl-mercaptans and decompn of latter in acid medium.

PA 195T15

	LC 195130	Hydroxylamine sulfate gives unsatisfactory quant detn since it does not cause total oximation. Indometric method gives satisfactory results for mixts contg any ratio of ether to alc.	USSR/Chemistry - Vinyl Ethers Nov/Dec 51 (Contd)	.LC 195T30	On basis of vinylpropyl and vinylisopropyl ethers, worked out methods for quant detn of vinyl ethers. Hydrolytic oximation of ether in presence of hydroxylamine chloride yields good results if ether contains < 20% alc. Greater % of alc results in lengthy procedure and incomplete detn.	"Zhur Analit Khim" Vol VI, No 6, pp 348-352	"Certain Methods for Quantitative Determination of Vinyl Ethers," M. F. Shostakovskiy, Ye. N. Prilezhayeva, N. I. Uvarov, Inst of Org Chem, Acad Sci USSR	USSR/Chemistry - Vinyl Ethers Nov/Dec 51	
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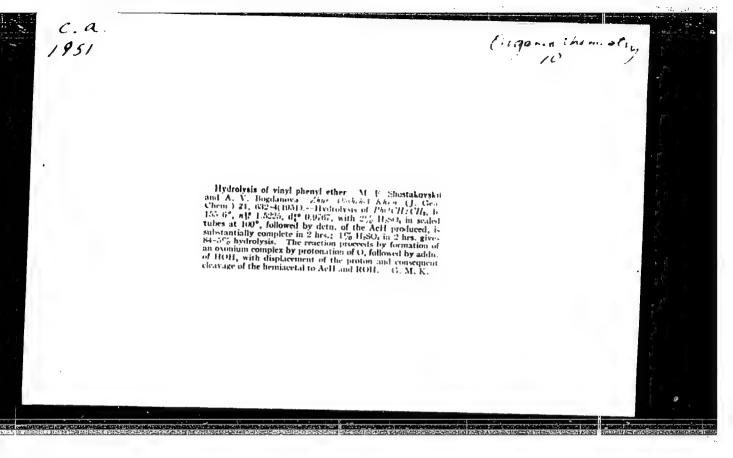


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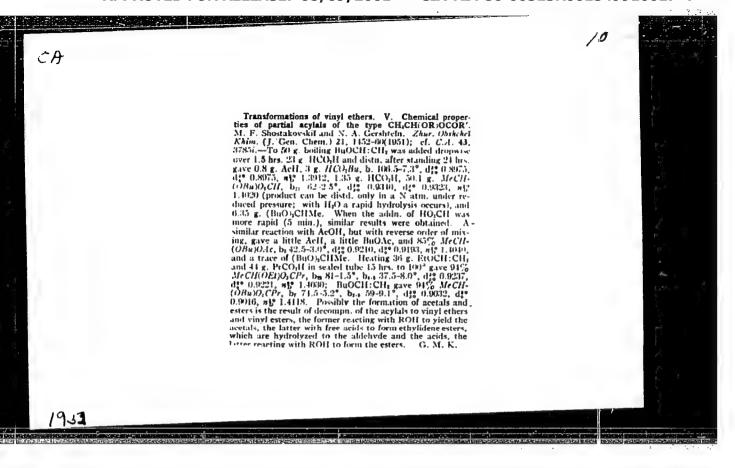
"The decomposition of a-halo ethors. II. a-Halosthyl phenylethers." or <u>K. F. Shortahovskid</u> and A. V. Bogdanova. (p.394)

SO: Journal of General Chemistry (Zhurnal Obshchoi Khimii) 1951, Volume 21, No.2

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SHOSTAKOVSKIY, M. F.	USSR/Chemistry - Chloro Derivatives of Ethers (Contd) O(\$\beta\$-dichloroethylalkyl ethers. Further chlorins- tion yielded \$\alpha\$, \$\beta\$-trichloroethylalkyl ethers, which were isolated and characterized. All products are easily hydrolyzed. \$\alpha\$, \$\beta\$-dichloro ethers can be detd by titration with \$AgNO_3\$ or NaOH.	"Zhur Obshch Khim" Vol XXI, No 9, pp 1610-1617 Improved method for prepn of Q, B -dichloroethylbutyl ether, described previously, with yield of 71% of theoretical. By addn of Cl to vinylmethyl, vinylethyl, vinylethyl, vinylethyl, vinylethyl, vinylethyl, vinylethyl, vinylethyl, vinylethyl, vinylethyl, vinylisopropyl ethers, prepd corresponding 191739	"Synthesis of α , β -Dichioroethylalkyl Ethers and Their Conversions. II. Synthesis of α , β -Dichloroethylmethyl, α , β -Dichlorodiethyl, and α , β -Dichloroethylisopropyl Ethers," M. F. Shostakovskiy, F. P. Sidel'kovskaya, Lab Vinyl Compds, Inst Org Chem, Acad Sci USSR	USSR/Chemistry - Chloro Derivatives of Sep 51 Ethers	
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Oct 51

"Specificate of Personal Color Vinder that Taker," N. W. Die tekevakiy, P. V. Takerev, Ind. C. Vin Die ent, Ind. of Craffee, ice Lai 1887.

"Zhur Obrich Khim" B 1 XXI, No 10, pp 1830-1836.

found to obtain in subscience of the later of MaOF using GoH2 not dissolved in inert gas was found to obtain in subscience at the Go. Pressure, depending an initial pressure of GoH 2 and mostly on alc-ether ratio in reaction mixt, sometimes reached 55-60 atm. Established methods for purification of vinylmethyl ether, detd its consts, introducing corrections into literature data.

PA 192731

SMOSTAKOWSKIY M. F.		FA 194T61	Line To a
194 <u>1</u> (5.	USSR/Chemistry - Chloroacetaldehyde Dec 51 (Contd) corresponding acetals of chloroacetaldehyde. Addn of Cl to vinylethyl ether in presence of excess BuOH yielded dibutylchloroacetal (yield 50% of theoretical). Proposes reaction mechanisms.	"Synthesis of Acetals of Chloroacetaldehyde," M. F. Shostekovskiy, F. P. Sidel'kovskaya, Lab of Vinyl Compds, Inst of Org Chem, Acad Sci USSR "Zhur Obshch Khim" Vol XXI, No 12, pp 2163-2170 Worked out synthesis of acetals of chloroace- taldehyde (useful in synthesis of physiologically active amino- and betainoaldehydes and other substances) by action of alcs or alcoholates on O(, 6-dichloroethylalkyl ethers. Yields run as high as 90% of theoretical. Addn of Cl to vinyl ethers in presence of analogous alcs yielded 194761	The second secon

oncome only d. F.			183237	
18वाद7	USSR/Chemistry - Polymerization (Contd) May 51 alcs, phenols; II was not polymerized or added to, but was exidizable under these conditions. Copolymer of I and II was formed through action of H ₂ O ₂ , confirming concept of free radical mech.	Examd processes of conversion of acryl-nitrile (I) and ofmethyl-styrene (II) through addn of H2O, alcs, phenols due to action of H2O2. I polymerized easily, did not interact with H2O,	the Conversion of the Nitrile of advMethyl-Styrene in the Presence roxide," M. F. Shostakovskiy, A. V. Vinyl Compds, Inst Org Chem, Acad	9
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The transformations of accylonitrile and a methylatyrene in the presence of hydrogen peroxide. M. L. Singhamakh and A. A. Bugdamakh J. A. Physical Christ Christian (1994).

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SHOSTAHOVSKII, M.F.

PA 1907hl

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USSR/Chemistry - Plastics

Oct 51

"The Viscosity Properties of Vinyl Alkyl Ether Polymers," M. F. Shostakovskiy, B. V. Deryagin, I. F. Bogdanov, N. N. Zakhavayeva, Inst Org Chem and Inst Phys Chem, Acad Sci USSR

"Zhur Prik Khim" Vol XXIV, No 10, pp 1063-1070

Polymers of vinyl alkyl ethers have very favorable temp viscosity curve (index of viscosity). A 2% soln of these polymers strongly reduces metal corrosion.

SHOSTAKOVSKIY, M.F.

PHASE I

TREASURE ISLAND BIBLIOGRAPHIC REPORT

AID 174 - I

BOOK

Call No.: QD341.E7S5

Author: SHOSTAKOVSKIY, M. F.

Full Title: VINYL ETHERS

Transliterated Title: Prostyye vinilovyye efiry

Publishing Data

Originating Agency: Academy of Sciences of the U.S.S.R. Institute of

Organic Chemistry Publishing House: Academy of Sciences, U.S.S.R.

Date: 1952

No. pp.: 280

No. of copies: 2,000

Editorial Staff

Editor: Kolesnikov, G. S.

Tech. Ed.: None

Editor-in-Chief: Petrov, A. D., Cor. Member Acad. of Sciences, U.S.S.R. Appraiser: None

Others:

Names of many Soviet scientists are mentioned in connection with

the bibliographic documentation.

Text Data

Coverage:

A survey of basic work done on the synthesis of vinyl ethers is given. The physical and chemical properties of the ethers, their

reactions with alcohols, phenols, and acids are described. Hydrolysis, polymerization, and analysis of vinyl ethers are

covered thoroughly. (Tables, charts)

1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549910017-4" Prostyye vinilovyye efiry

AID 174 - I

The book might be of interest because of the importance of vinyl ethers to modern industry.

Purpose: The purpose of the author

The purpose of the author was to set forth the discovery of the reaction of vinylation, the application of this reaction in the chemical industry, and the contributions of Soviet scientists to the chemistry of vinyl ethers.

Facilities: None

No. of Russian and Slavic References: 270; Foreign: 275 (1856-1951) Available: Library of Congress.

2/2

4987. Role of peroxides in processes of polymerization of Rubber Abst. vinyl compounds. M. F. SHOSTAKOVSKII, V. P. SHISHIKOV, and V. A. NETERMAN: Khim. i. Fiz Khim. Vysokomolekul. Vol. 31 Dec. 1953 Soedinenii, Doklady 7-oi Konf. Vysokomolekul. Soedineniyam Synthetic Rubber 1952, 28-34; Chem. Abs., 1953, 47, 7819. Three general and Like Products classes of vinyl monomers are distinguished according to the mechansim of their polymerisation. The action of benzoyl peroxide is discussed, and the relation between activity of monomer, copolymer activity, and the polymerisation reaction described. Various experiments on the action of benzoyl peroxide were carried out. Examples relate to methacrylates, vinyl esters, vinyl chloride, and the like, in solution or . 3812 emulsion.

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Chemical Abst. Vol. 48 No. 9 May 10, 1954 Organic Chemistry Synthesis and properties of 1-alkoxychyl esters of unsaturated carboxylic acida (acytala). M. P. Shortakovskii, N. A. Garbelle, V. A. Raskin, and J. B. Diroumova. Bull. Acad. Sci. U.S.S.R., Dir. Chem. Sci. 1952, 483-8 (Engl. translation).—See C.A. 47, 4850s. H. L. H.	STOSTAHOTBARIO, M. T.F.	
	Vol. 48 No. 9 May 10. 1954	Synthesis and properties of 1-alkoxysihvi esiars of unsaturated carboxylic acids (acylais). M. P. Shostakovskii, M. A. Gershtein Va. L. Raskin, and L. B. Ostroumova. Bul. Acad. Sci. U.S.S.R., Div. Chem. Sci. 1952, 453-8 (Ergi. translation).—See C.A. 47, 4850s. H. L. H.

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Chemical Abst.

Vol. 48 No. 69
May 10, 1954
Organic Chemistry

Chemical Abst.

Synthesis of sulfur campounds based on vinyl others. V.
Some new representatives of the series a,6° and g,6° dialkoxydicityl sulfides. P. N. Prilezhavys E. S. Shariro.
and tM. F. Shocksik, Bull. Area. Sci. U.S.J.R.,
Dir. Chem. Sci. 1952, 459-63(Engl. translation).—Sec.
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Chemical Abst.
Vol. 48 No. 9
May 10, 1954
Organic Chemistry

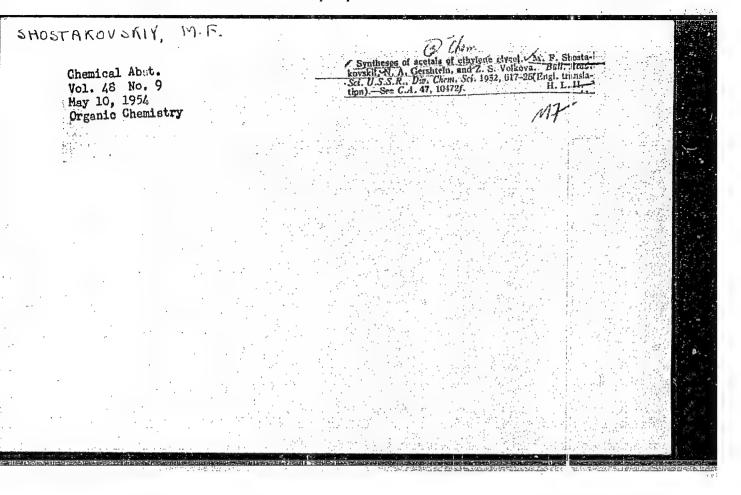
Synthesis of the plant charge displace alcohols.
1-M, F. Shortakovskil A. I. Mikhantev, and K. A. Neterman.
Bull. Acad. Sci. U.S.S.K., Die. Chem. Sci. 1952,
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465-7(Engl. translation).—See C.A. 47, 97894.

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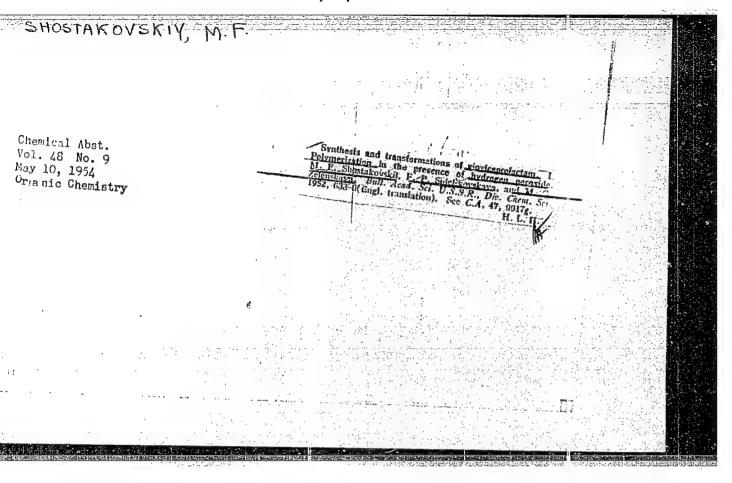
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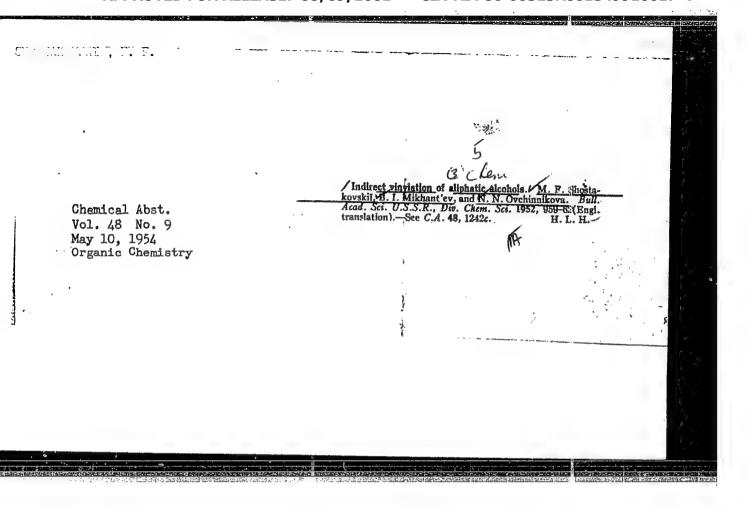
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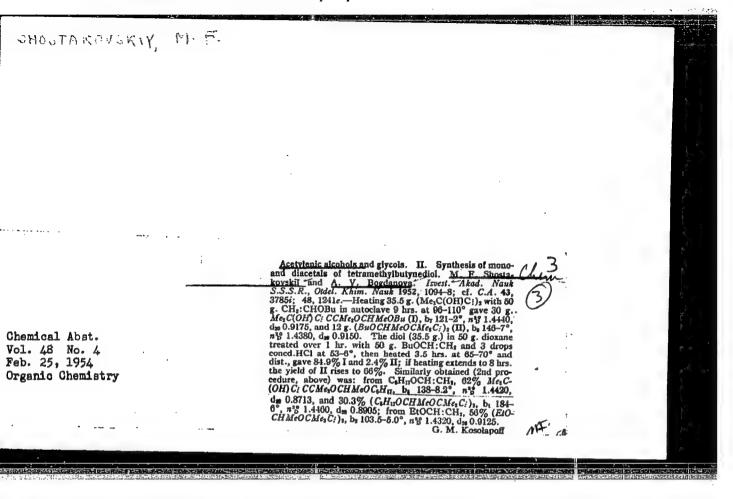
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SHOSTAKOVSKIY, M.F.; GERSHTEYN, N.A.; VOLKOVA, Z.S.

Synthesis of acetals of ethylene glycol. Izvest. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk '52, 671-81. (MLRA 5:9) (Gà 47 no.20:10472 '53)

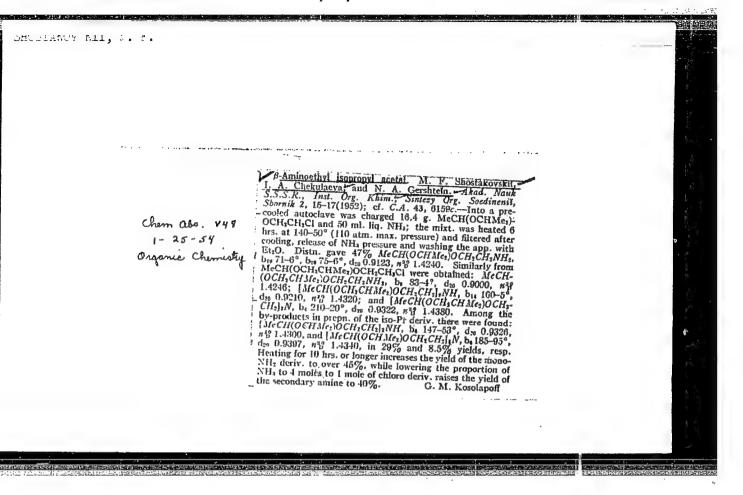


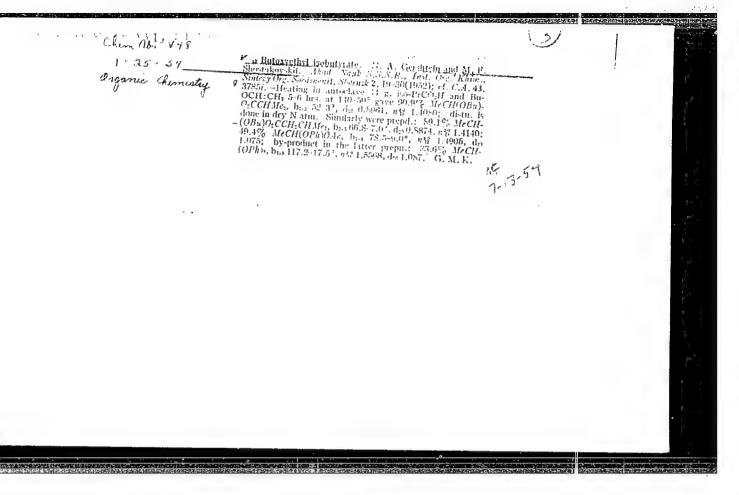


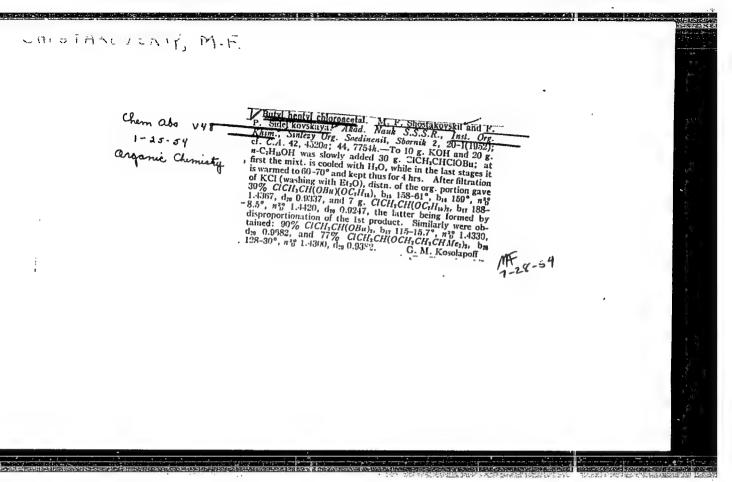
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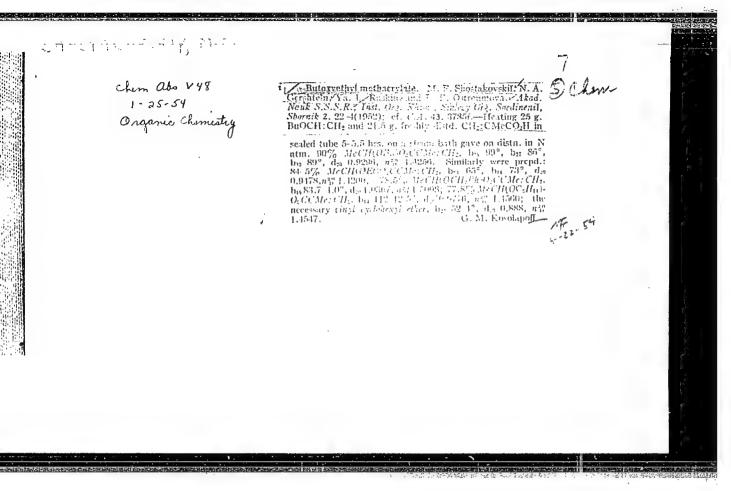
Tynthesis and transformations of vinyl ethers of eminorthanols. Fort ? Cynthesis of eminocontain M. F. Fortalovskiy, I. A. Chelylayawa, N. A. Gershteyn. Izv. AN ESTA. Otta. No im new? Mo. 1, 1952.

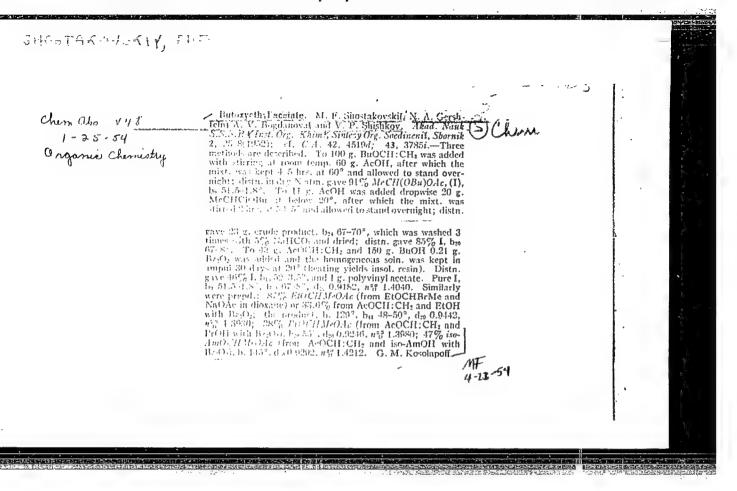
Monthly List of Mussian Accessions, Library of Congress, Saptember, 1952. UNCLASSIFIED.

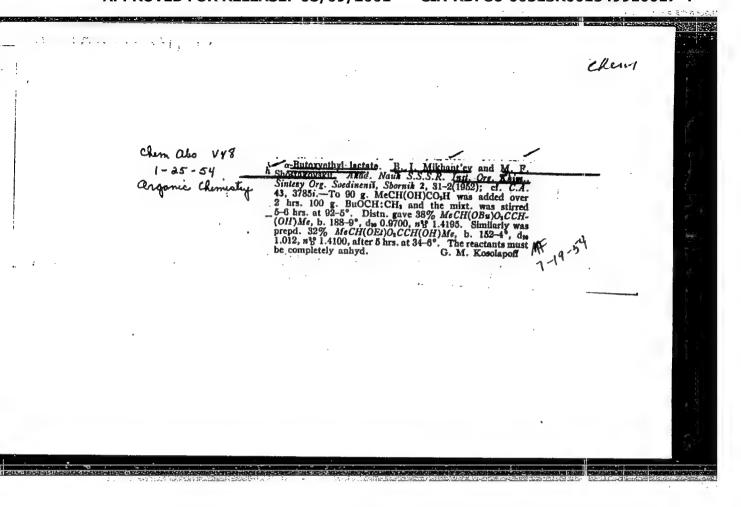












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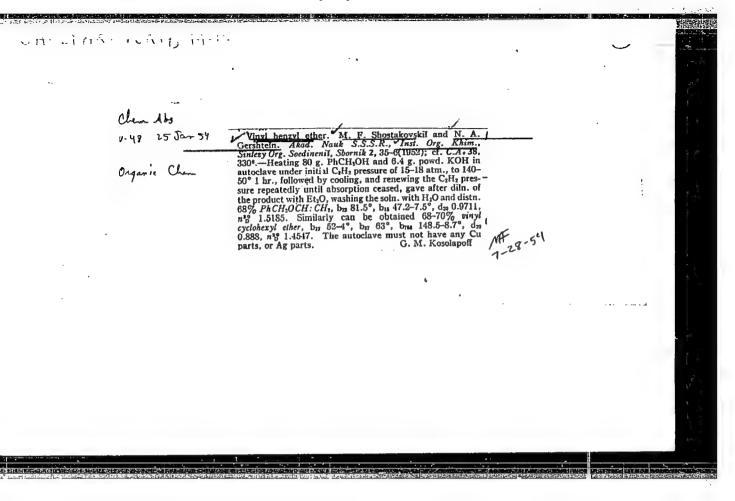
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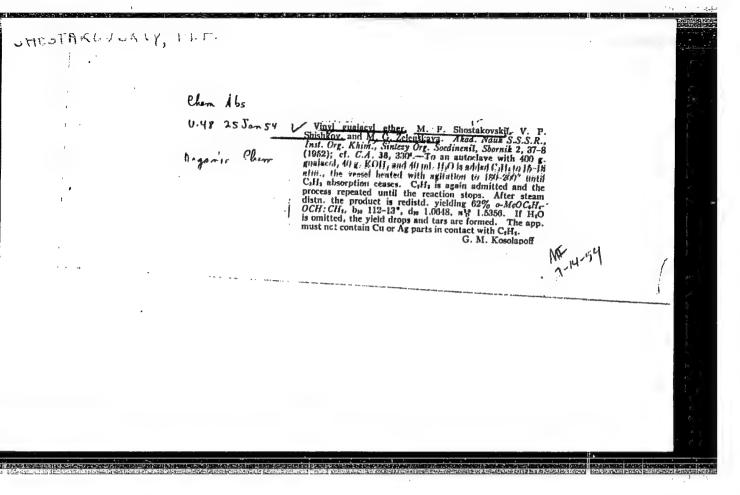
Organic Chemisky

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(1952): ed. C.A. 38. 350-10 72 g. 110CH.CH.NII; was splaced into an autoclave; C.H. Her of the mixt. was ableed to 120-10° the C.H. pressure was again restored and healing repeated until the calcal ant. is consumed. Distr. gave Districted with NEWOCH: C.H. enables of the calcal ant. is consumed. Distr. gave Districted with NEWOCH: C.H. enables of the calcal ant. is consumed. Distr. gave Districted with NEWOCH: C.H. enables of the consumed. Distr. gave Districted with NEWOCH: C.H. enables of the consumed. Distr. gave Districted with New Oct. (1964). The autoclave must not have any Cur parts. (1964). The autoclave

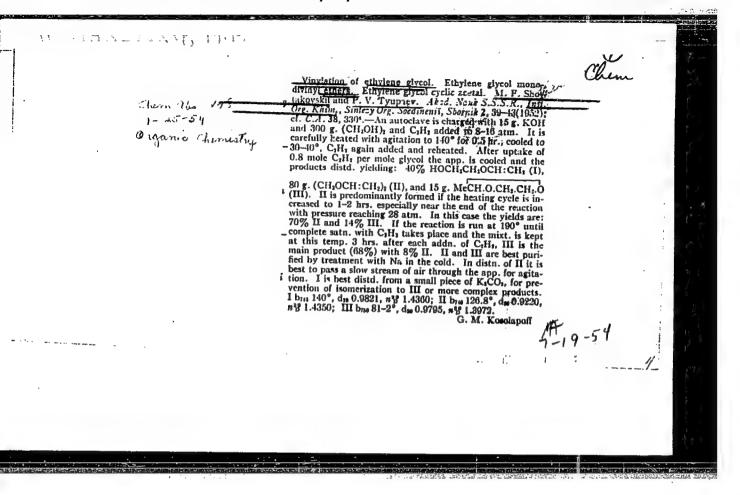
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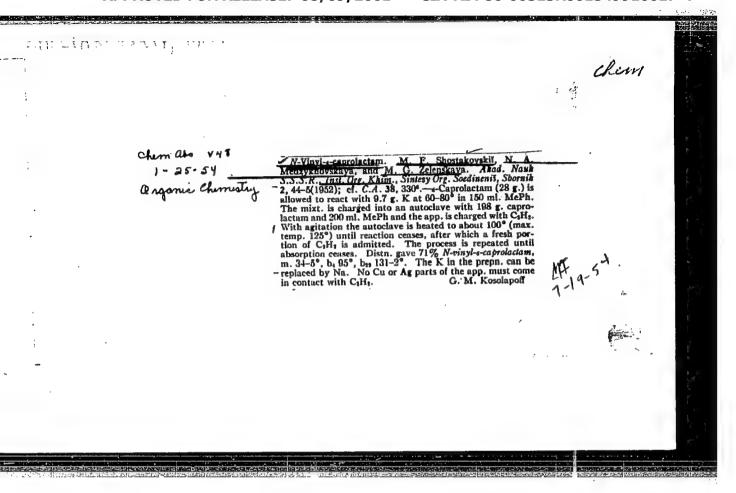


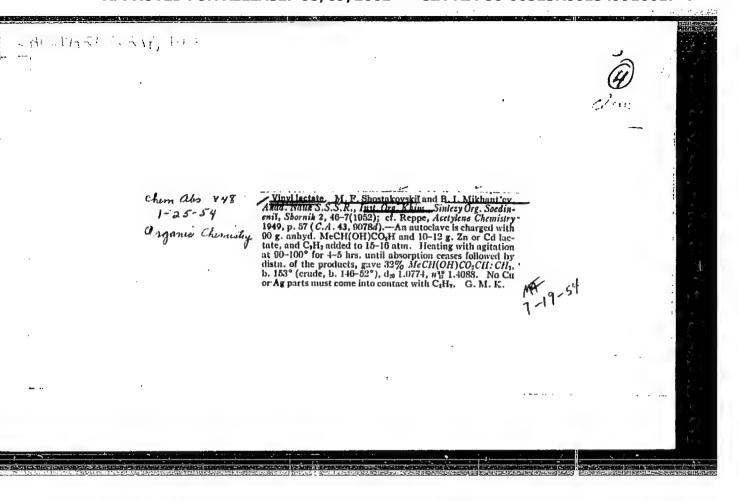


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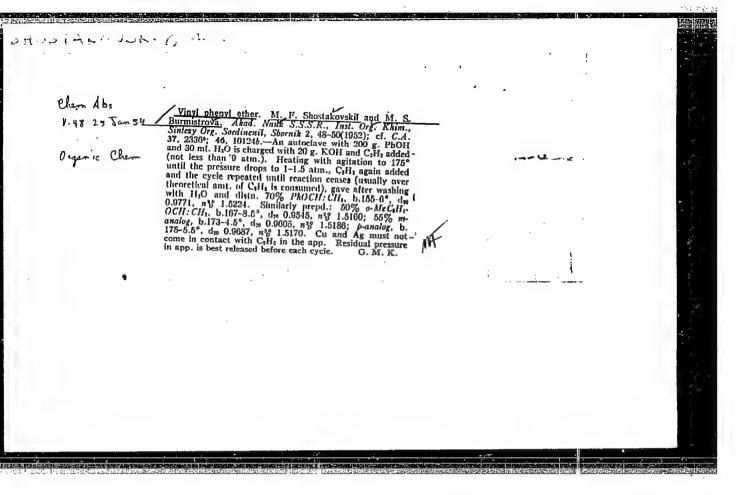
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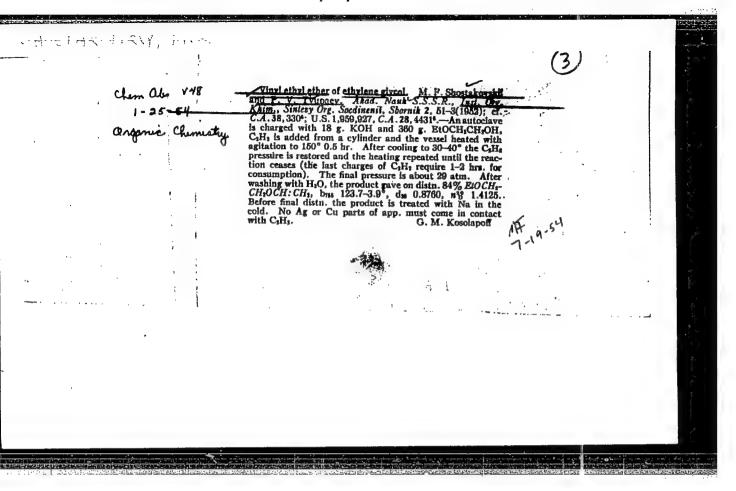


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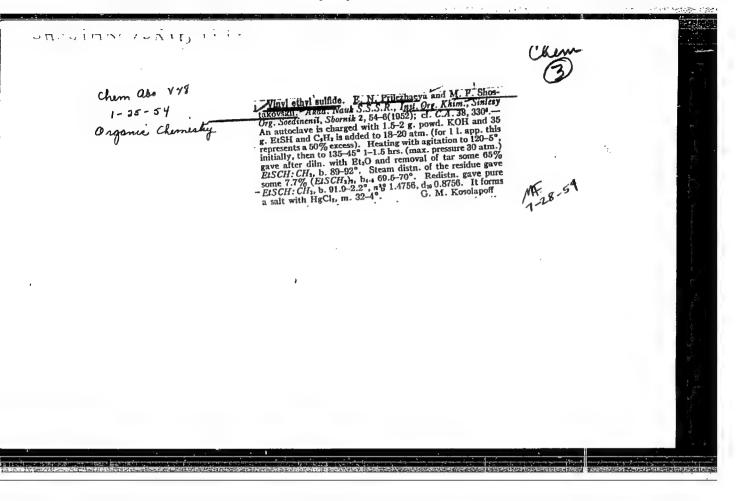


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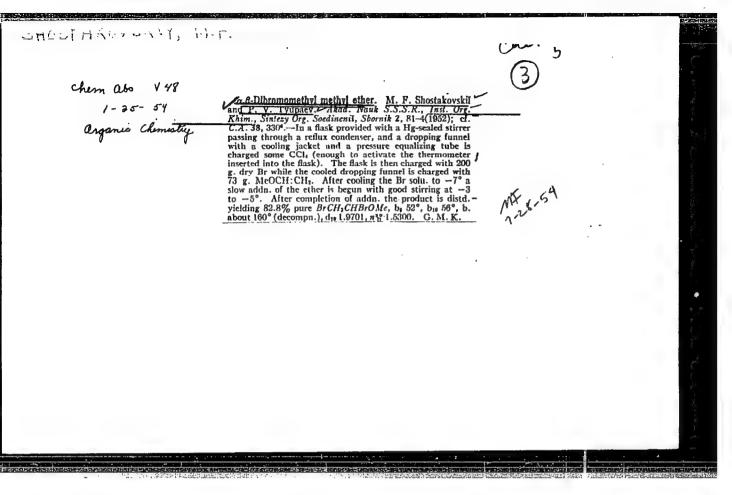
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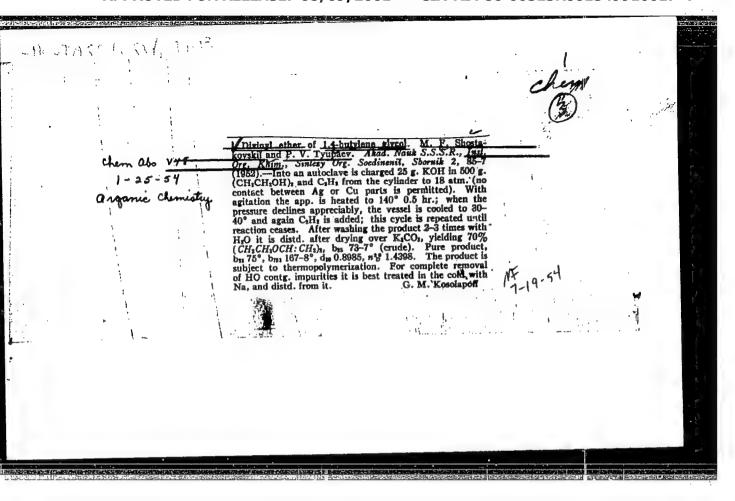


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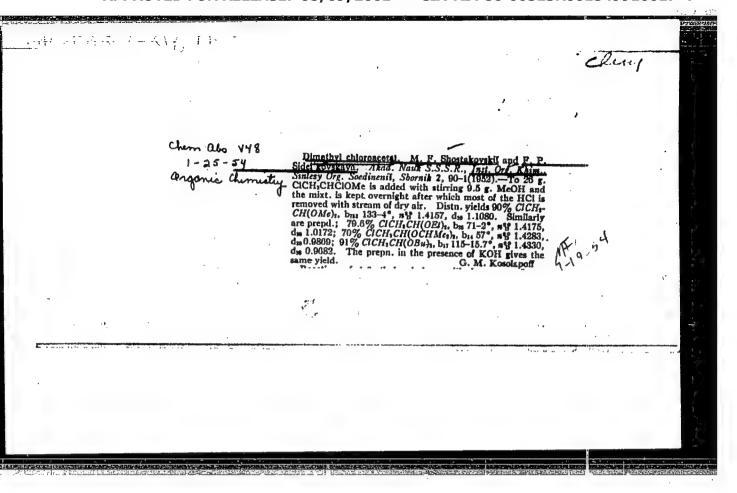


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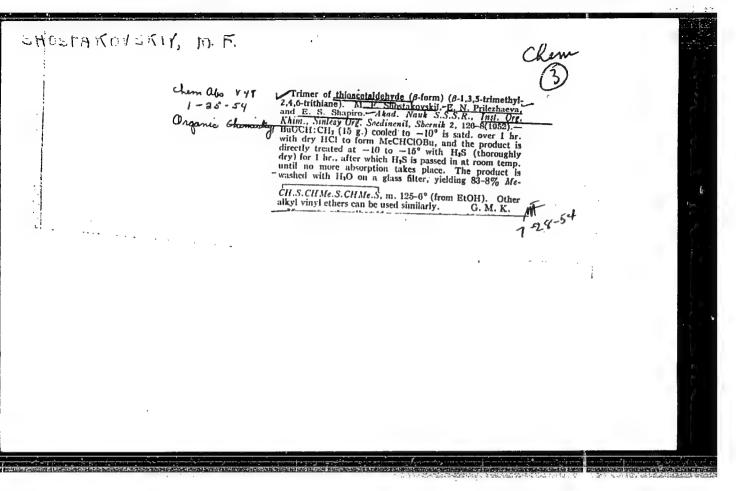




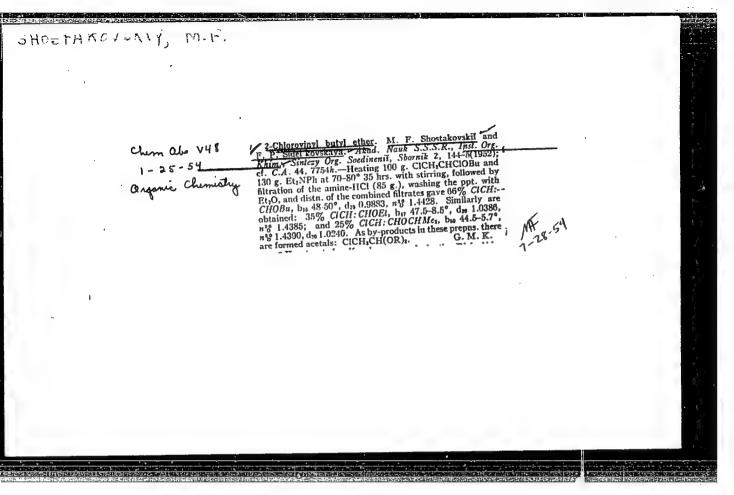
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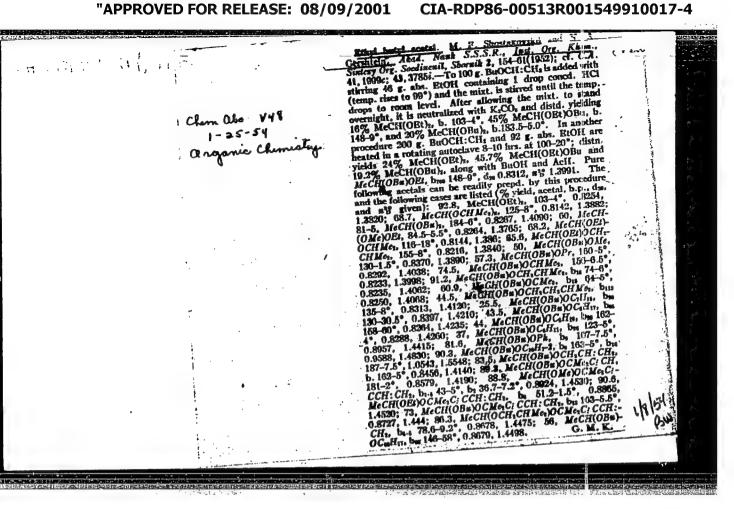


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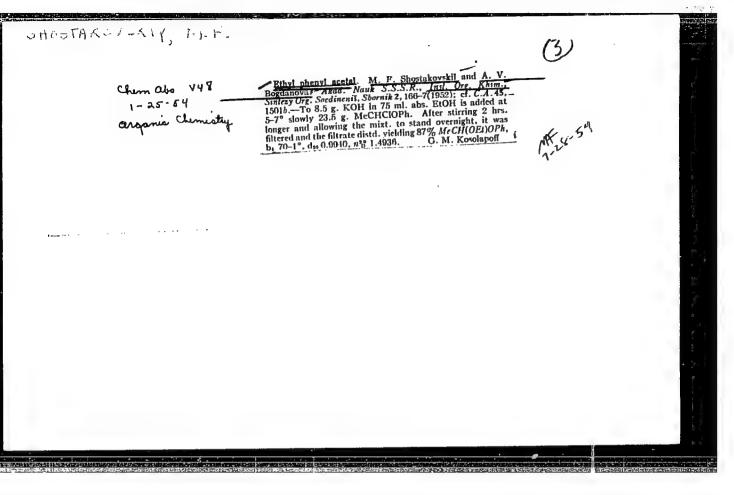


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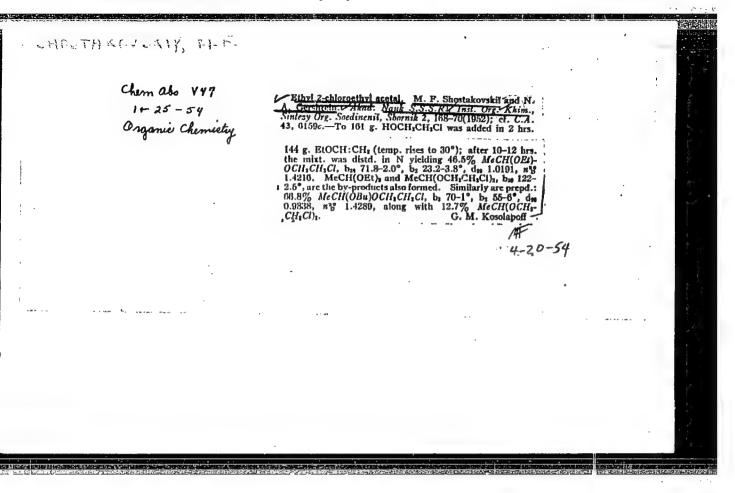


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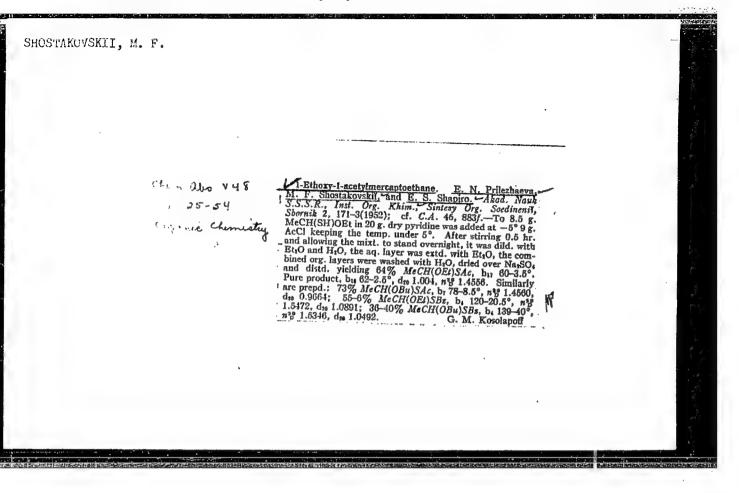


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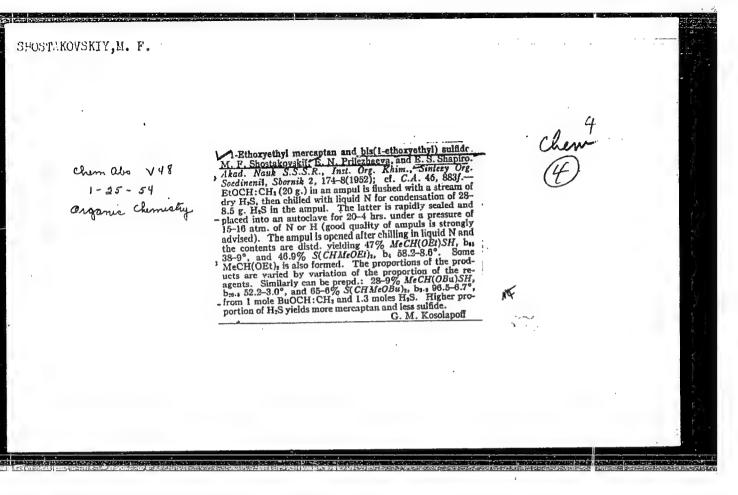
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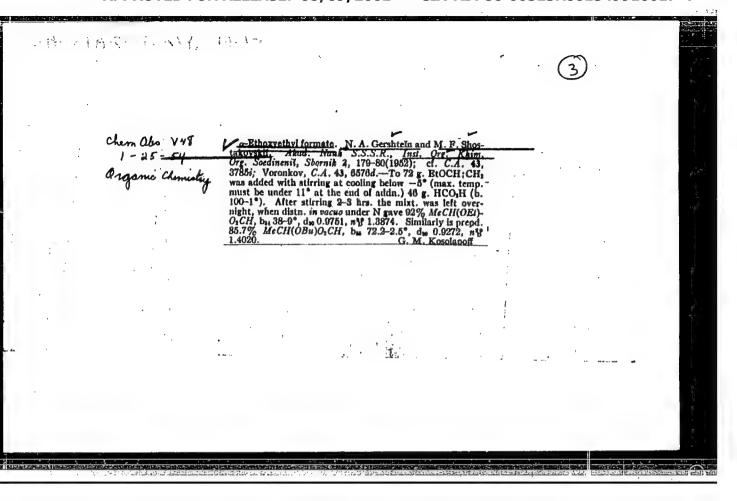


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SHOSTAKOVSKIY, M. F., GERSHTEYN, N. A.,

Acylals

Synthesis and properties of unsaturated-alkoxyethylidene esters of carboxylic acids (acylals). Izv.AN SSSR Otd. khim. nauk No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, November, 1952. UNCLASSIFIED.

CHOSTAKOVSKIY, M. F.

USSR/Chemistry - Organic Sulfur Compounds

May/Jun 52

"Synthesis of Sulfur Compounds on the Basis of Simple Vinyl Ethers. Fart 5. Some New Representatives of the & ,8- and B. &-Dialkoxydiethylsulfides," Ye. N. Prilezhayeva, E. S. Shapiro, M. F. Shostakovskiy, Inst of Org Chem, Acad Sci USSR

"Iz Ak Nauk, Otdel Khim Nauk" No 3, pp 478-483

Addn of H_2S to vinyl isobutyl and vinyl isoamyl ethers in presence of HCl in dioxane forms mixts of cx, β - and β , β -dialkoxyethylsulfides. Some chem conversions of new homologues of the dialkoxydiethylsulfide and of the β , β -dialkoxydiethylmercaptal series were studied.

PA 220T11

USSR/Chemistry - Vinyl Ethers May/Jun 52

"Synthesis of Vinyl Ethers of Higher Fatty
Alcohole," M.F. Shostakovskiy, B.I. Mikhant'yev,
V.A. Neterman, Inst of Org Chem, Acad Sci USSR

"Iz Ak Nauk, Otdel Khim Nauk" No 3, pp 464-488

Studied vinylization of fatty alcs C6 to C10. Obtained vinyl ethers C8 to C12 in yields of 80.4

to 89.2% of the theoretical yield. Gives the phys characteristics of the synthesized vinyl ethers.

USSER/Chemistry - High-Molecular Gon- pounds "Synthesis and Polymerization of Vinylcaprolactam," M. F. Shostakovakly, M. A. Medzykhovskly, M. G. Zelenskaya, Inst of Org Chem, Acad Sci USSR "Iz Ak Nauk SSSR, Otdel Khim Nauk" No 4, pp 682-689 Parallel to investigations on vinylpyrollidone, authors carried out work on vinylpyrollidone, authors carried out work on vinylpyrollidone, and its polymers, because this product is made from industrial raw material that is more easily accersible in the USSR. Found conditions under product of the interaction of rotassium medal, with II. Upon synthesis, I crystallizes readily. Hydrolysis of I leads to acctaldahyde, II, and salt of III, i. e., which II. Upon synthesis, I crystallizes readily. Hydrolysis of I leads to acctaldahyde, II, and salt of Feminocaproic acid. Polymerization of I proceeds well in the presence of bydrogen perconde after heating to 140-150°. Isolated cryst product of reaction of I with Of Polymerization of I with Of Thymerization of I wath of I

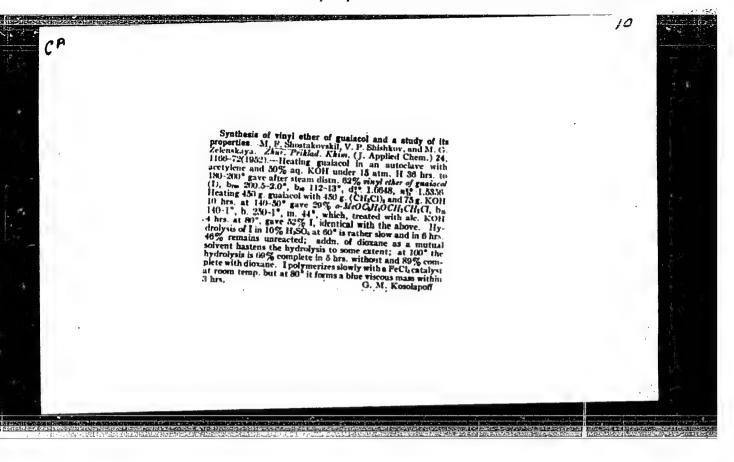
SHOSTAKOVSKIY, M. F.				
USSR/Chemistry - High-Molecular Jul/Aug 52 Compounds "Synthesis and Transformations of Vinylcaprolactam. I. Polymerization in the Presence of Hydrogen Peroxide," M. F. Shostakovskiy, F. P. Sidel'kovskaya, M.G. Zelenskaya, Inst of Org Chem, Acad Sci USSR "Iz Ak Nauk SSSR, Otdel Khim Mauk" No 4, pp	-695 ng undild acetylene (authors state the procedure customary in the USS guished from foreign practice), th ylated caprolactem. They found that	of caprolactam (product of interaction of Nemetal with caprolactam) is a suitable catalyst for the vinylation. They state that it is safer to use Na salt than K salt. They investigated polymerization of vinylcaprolactam in the presence of H2O2 at temps in the range 100-1500 and found that with higher temps the rate of polymerization increases, while the quantity of catalyst that is needed drops.	229718	The second secon
AMERICAN CONTROL OF THE CONTROL OF T			PART OF PART O	

- 1. SHOSTAKOVSKIY, M. F.; MIKHANT'YEV, B. I.; OVCHINNIKOVA, N. N.
- 2. USSR (600)
- 4. Vinylation
- 7. Indirect vinylation of aliphatic alchols. Izv. AN SSSR. Otd. khim. nauk. No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl

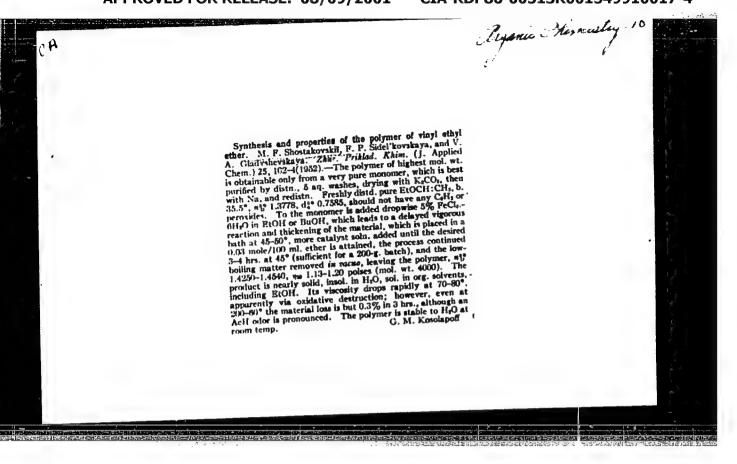
- 1. THE STANCESKIY, N. F., RECKINIA, A. I.
- 2. 333 (600)
- 4. Acetals
- 7. Investigation of acetylenic alcohols and glycels. Part 2. Synthesis of mono- and diacetals of tetramethylbutynediol. Izv. AN 333R Ctd. Main. nauk no. 0 1952

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Unclassified.



"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549910017-4



SHOSTAKOVSKIY, M.F.; ZELENSKAYA, M.G.

Properties and transformations of vinyl guaiacyl ether. Zhur. Priklad.

Khim. 25, 1221-5 '52.

(GA 47 no.17:8678 '53)

SHOSTAFOVSKIY, M. F.

Ethylvinyl Ether; Polymers and Polymerization

Polymer of ethylvinyl ether, synthesis and properties. Zhur. prikl. khim. 25, No. 1, 1952 Laboratoriya Vinilovykh Sovidineniy Instituta Organicheskoy Shimii AN SSSR

So: Monthly List of Russian Accessions, Library of Congress, August 1952 1953, Uncl.

UHONINKUYSKIY, MIT

SHOSTAKOVSKY, M. F.

USSR/Chemistry - Vinyl Ethers, Catalysts

Aug 52

D. V. Sokolsky, M. F. Shostakovsky, B. I. Mikhantev F. G. Golodov, Inst of Org Chem, Acad Sci USSR and "The Catalytic Hydrogenation of Vinyl Ethers,"

"Zhur Prik Khim" Vol 25, No 8, pp 867-875

can be hydrogenated quantitatively by using a low

Vinyl ethyl, vinyl isopropyl and vinyl butyl ethers

temp and ag solns, and in the presence of nickel

Hydrogenation at temps

close to zero requires little time. With the 2d

and Pd/CaCO3 catalysts.

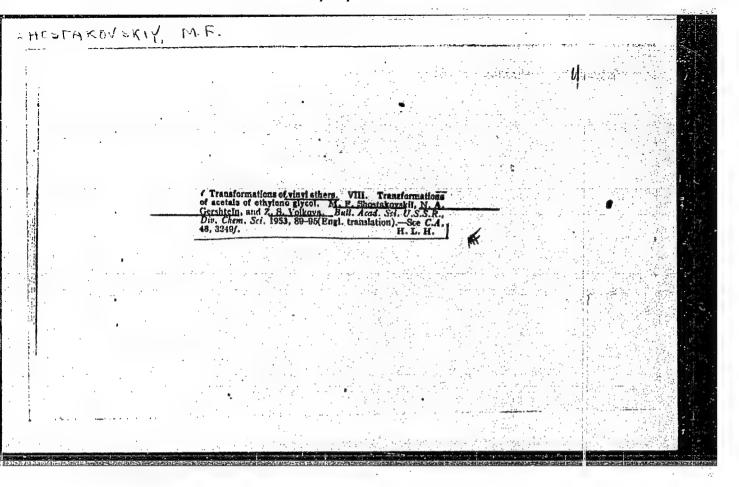
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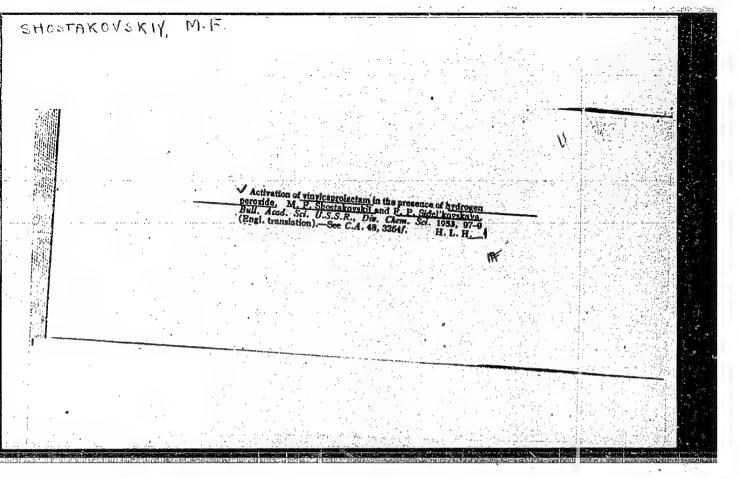
catalyst was measured during the course of the reanalysis of vinyl butyl ether, the best catalyst is ened from 3 hrs to 20-30 min. batch of vinyl ether, the activity of the catalyst action and a special jacketed vessel made of Mo hydrogenation of vinyl ethyl ether. Ni, and for vinyl isopropyl ether the best catalyst is Pd/CaCO3. Doth catalysts are suitable for the increases, and the rate of hydrogenation is short-For H-volumetric The emf at the

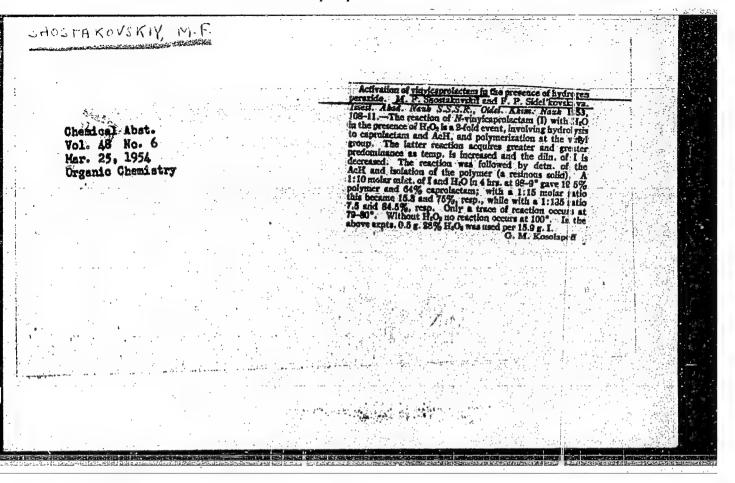
SHOSTAKOVSKIY, M.F.; BANKVITSER, A.L., redaktor.

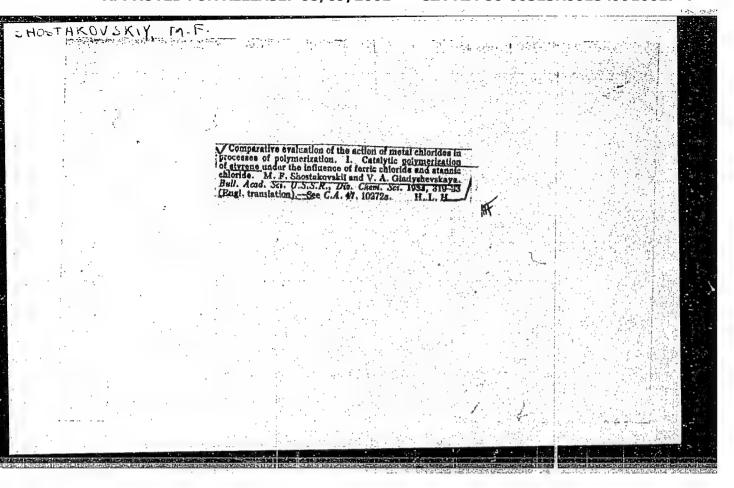
[Academician Aleksei Evgrafovich Favorskii] Akademik Aleksei Evgrafovich Favorskii. Moskva, Gos. nauchno-tekhn. izd-vo khim. lit-ry. 1953. 157 p. (MLRA 7:4)

(Favorskii, Aleksei Evgrafovich, 1860-1945)







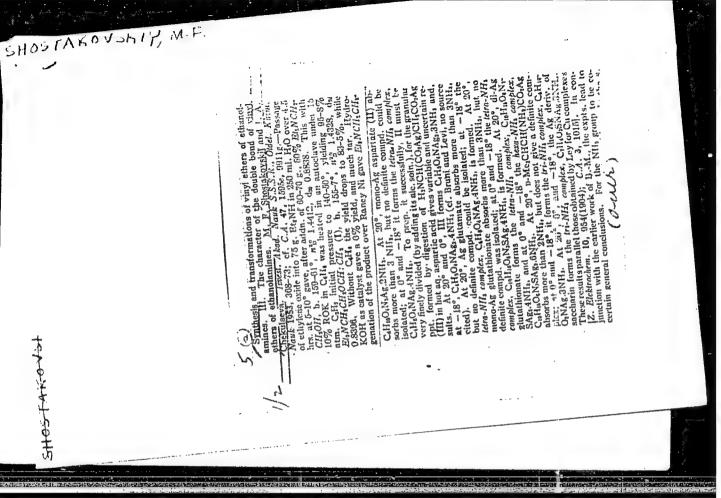


SHOSTA KOVSKIY, M.F.

Synthesis of comme compounds on the basis of vinyl ethers and occtyions. VI. Reaction of uncomptans with vinyl ethers. M. F. Shostakov Lü, E. N. Prilezhaeva, and E. S. Shanto, Erst. Asol. Nauk 5.5.5.R., 1937. Abim. Nauk 1951, 357-67; cf. C.1. 47, 4810g.—Into 3.9 g. RiSH and 7.2 g. EIOCH: CH, at =20° was briefly passed a current of SO, the mixt, stirred 2 brs. at room temp., and left overnight; distin. gave 81.7% McCH(OEt)NE, bac 67.5-9.5°, bp 53-4°, n° 1.4428, do 0.000; alc. RgCl; gives a quant, ppte of EtSHgCl. Similarly EtSH and BuOCH:-CH; in the presence of little SO, after 20 brs. in a scaled tube

CH₂ in the presence of little SO₂ after 20 hrs. in a scaled tube—
At room temp, gave 86.5% MeCH(OBu)SEt, b. 50-7°,
n³9 1.4301, do 0.8855. At room temp, the reaction of
EISH with EtOCH:CH; caralyzed by O is not complete;
even in 2 months; heating some 60 hrs. at 60-5° gave 9356.
EISCH₂CH₂OR₂ (I), bp. 78-8.5°, n³9 1.4507, do 0.9126;
the catalytic amts. of dissolved O were merely the traces
left in the starting materials after vacuum distins. With
alc. HgCl, the product forms a viscous unknown mass.
Oxidation of I with H₂O₁ in AcOH gave 50.7% suifoxide
(CcH₂OS), b₁112.2-13.5°, n⁴9 1.4696, do 1.0364. Similar
reaction of BuOCH:CH; with ESH was even slower and
gave the max, yield (96.8%) of BuOCH₂CH₂SE₂, b₃65-6°,
n⁴9 1.4520, do 0.8879, after 35 hrs. at 60°. With H₂O₁
in AcOH it gave the suifoxide, b₁s 112-12.5°, b₂17.217.4°, n²9 1.4661, d₃0.9955. BuOCH:CH₂ and BuOCH₂CH₃SE,
b_{1,3} 130-1.0°, n²9 1.4600, d₉ not cited. EtOCH:CH₂ and
BiSH react more rapidly in ordinary "losed flast"
with atin. O and in 0 days give 94.6°, addn. p. c tect. If
the vinyl ether contains some pero (a the real tan is re-

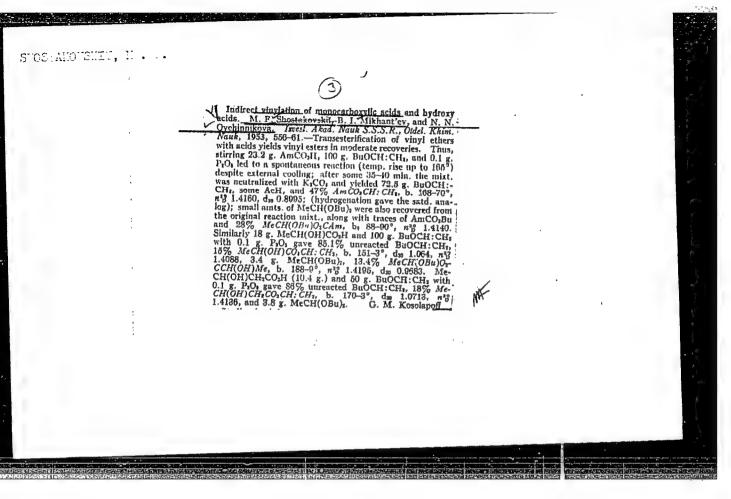
tarded. Completely peroxide-tree starting material cave at mixt, of reaction products contg, some 97.5% EtSC1 CH2-OEt and only 2.5% McCH(OEt)SEt; if the other contains peroxides from air contact, the reaction product is basinly (65.5%) the latter product, the reaction product is basinly (65.5%) the latter product, and only 34.5% of the ormer product is formed. Under conditions of free air cross, FroCH:CH20E10E1, br.4 (65.8%) 14.505. BroCH:CH3 and McCH(OEt)SH yield only 16.0H-(SCH:CH20E10E1, br.4 (65.8%) nrg 1.4505. BroCH:CH3 adds quite less rapidly than the Et analog and after 8 hrs. at 50° or 12 hrs. at 100° yields 87-0% addu, product swith EtSH. At room temp, the product is mainly Bu 1CH3-CH5SH. At room temp, the product is mainly Bu 1CH3-CH5SH with some 13% MeCH(OBu)SEt. At el vated temp, the main product (50-62%) is the latter subcannee, while the former substance is the lesser constituen (37-40%). Pure McCH(OBu)SEt, h. 56.1-6.2%, nrg 1.4476, drg 0.8897; pure BroCH3E1, br.4 (67.8-8.2), nrg 1.4571, drg 0.8981. Keeping BuOCH:CH4, with Bu 1CH2-CH5H2 drays at room temp, gave 85.7% mixed (Bu 1CH2-CH5)S and McCH(OBu)SCH4CHOBn, br.118-24°, ontg, 34.5% of the latter. Similarly BuOCH:CH4 and h.eCH4OBu)SCH4CH4OBu and [McCH(OBu)], S. h. 102-41°, ontg, 90.4% of the former. A mixt. of 30 g. BuOCH:CH and 0.3 g. AcSH after 2 days gave 90.7% AcSCHCH bas, br.1.84-4.1°, nrg 1.4605, drg 0.9805. G. M. Kosola 10ff

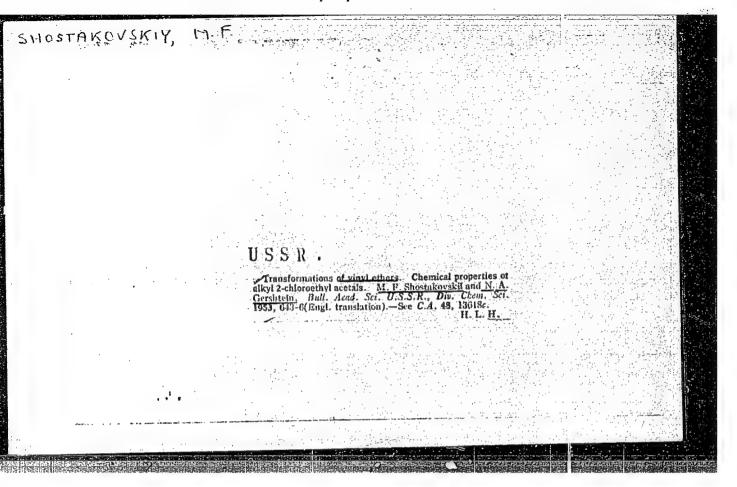


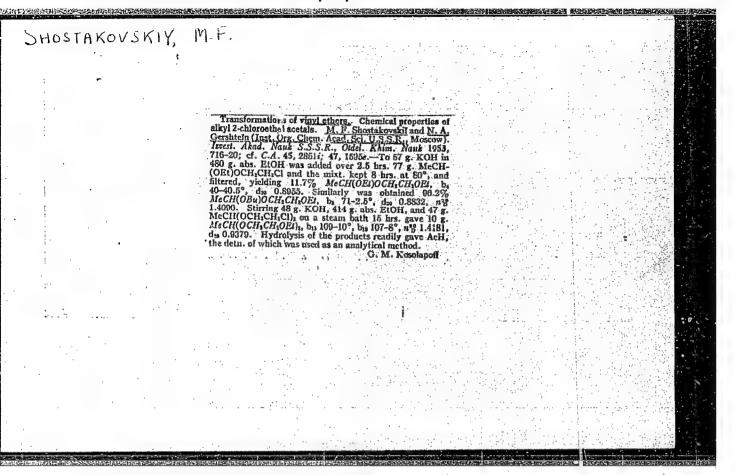
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